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FORM PTO-1449 (Modified) (Rev. 7-80)	U.S. Dept. of Commerce Patent and Trademark Office	Atty Docket No. KYRA-410 US4	Appln. No. 09/177,935
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		Applicants Ben K. Kacyra et al.	FEB - 9 1999
		Filing Date October 23, 1998	Group 2700

U.S. PATENT DOCUMENTS							
*Examiner Initials		Document Number	Date	Name	Class	Subclass	Filing Date
SN	*BA	5,114,226	05/19/92	Goodwin et al.	356	5	09/28/90
	BB						

FOREIGN PATENT DOCUMENTS							
*Examiner Initials		Document Number	Date	Country	Class	Subclass	Translation YES NO
	BC						

OTHER DOCUMENTS		
SN	*BD	N. Woodbury, M. Brubacher & J.R. Woodbury, "Noninvasive Tank Gauging With Frequency-Modulated Laser Ranging," <u>Sensors</u> , September 1993, pp. 27-31
	*BE	R.R. Clark, "A Laser Distance Measurement Sensor for Industry and Robotics," <u>Sensors</u> , June 1994, pp. 43-45 & 47.
	*BF	Brochure by Azimuth "Laser Ranging Systems," including Product Description "LRY-750B," 3/96, 10 pages in length.
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	*BH	D.S. Schwartz, "Vision Metrology System: An Automated Noncontact Three-Dimensional Measurement System," <u>General Dynamics Corporation</u> , Copyright 1989, 7 pages in length
	*BI	Brochure by John E. Chance & Associates, Inc., "TruckMap," May 1994, 2 pages in length.
	*BJ	D. Knopp, "Megamodels from MicroStation - Photography goes 3D," <u>MicroStation Manager</u> , August 1994, pp. 60-63.
	*BK	M. Laasonen, "Surveying and Data Processing in Building Renovation," <u>Surveying Science in Finland</u> , Vol. 11, No. 1-2, 1993, p. 3-14, reformatted pp. 1-7.
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	*BM	T.T. Wohlers, "3D Digitizers," <u>Computer Graphics World</u> , July 1992, pp. 73-77.
SN	*BN	T. Wohlers, "The Challenge of 3D Digitizing," <u>Computer Graphics World</u> , November 1995, pp. 21-22.

Examiner <i>Sangyun</i>	Date Considered <i>68/16/04</i>
* Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	



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FORM PTO-1449 (Modified) (Rev. 7-80)		U.S. Dept. of Commerce Patent and Trademark Office		Atty Docket No. KYRA-410 US4		Appln. No. 09/177,989	
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				Applicants Ben K. Kacyra et al.		FEB - 9 1999.	
				Filing Date October 23, 1998		Group 2571 Group 2700	
U.S. PATENT DOCUMENTS							
*Examiner Initials		Document Number	Date	Name	Class	Subclass	Filing Date
	CA						
	CB						
FOREIGN PATENT DOCUMENTS							
*Examiner Initials		Document Number	Date	Country	Class	Subclass	Translation YES NO
	CC						
OTHER DOCUMENTS							
SN	*CD	T. Wohlers, "3D Digitizing Systems, <u>Computer Graphics World</u> , April 1994, pp. 59-61.					
↑	*CE	K. Määttä, J. Kostamovaara & R. Myllylä, "Profiling of hot surfaces by pulsed time-of-flight laser range finder techniques," <u>Applied Optics</u> , Vol. 32, No. 27, 20 September 1993, pp. 5334-5347.					
	*CF	R.E. Garrett, "Advanced Technology for Blasters," <u>Rock Products</u> , January 1996, pp. 37-42.					
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Examiner Sangyun				Date Considered 08/16/94			
* Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							



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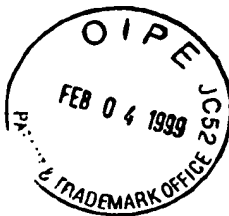
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INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				Applicants Ben K. Kacyra et al.		FEB - 9 1999	
				Filing Date October 23, 1998		Group 2200-2871	
U.S. PATENT DOCUMENTS							
*Examiner Initials		Document Number	Date	Name	Class	Subclass	Filing Date
	DA						
	DB						
FOREIGN PATENT DOCUMENTS							
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	DC						
	DD						
OTHER DOCUMENTS							
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↑	*DF	Brochure by Perceptron, "Simultaneous 2-D and 3-D images from a single general-purpose camera," May 1995, 5 pages in length.					
	*DG	S. Ball, "Autoscanning Laser Systems a Valuable Tool," September 1996, 2 pages in length.					
	*DH	C. Bradley & G.W. Vickers, "Free-form surface reconstruction for machine vision rapid prototyping," <u>Optical Engineering</u> , Vol. 32, No. 9, September 1993, pp. 2191-2200.					
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	*DL	B. Turko, "A Picosecond Resolution Time Digitizer for Laser Ranging", <u>IEEE Transactions on Nuclear Science</u> , Vol. NS-25, No. 1, February 1978, pp. 75-80.					
	*DM	K.W. Wong, A.G. Wiley, & M. Lew, "GPS-Guided Vision Systems for Real-Time Surveying", <u>Journal of Surveying Engineering</u> , Vol. 115 No. 2, May 1989, pp. 243-251.					
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	*DO	Brochure, Kreon, 1995, 7 pages in length.					
↓	*DP	Brochure, Spatial Positioning Systems, Inc. (SPI), 1996, 4 pages in length.					
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Examiner Sangju				Date Considered 08/16/94			
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				Group 2700 9877			
U.S. PATENT DOCUMENTS							
*Examiner Initials		Document Number	Date	Name	Class	Subclass	Filing Date
	EA						
	EB						
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*Examiner Initials		Document Number	Date	Country	Class	Subclass	Translation YES NO
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	ED						
OTHER DOCUMENTS							
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	*EF	Advertisement, "MDL's Quarryman ALS", ACSM Bulletin, July/August 1996, pp. 36.					
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	*EJ	M. Scherer, "Uni-Scan: A System for Automatic Architectural Surveying," date unknown, pp. 285-284c.					
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Examiner Sawyer				Date Considered 08/16/99			
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INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		Applicant(s) Ben K. Kacyra et al.	
		Filing Date October 23, 1998	Group 2877

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↑	*AB	4,928,152	05/22/90	Gerardin	356	5	02/24/87
	*AC	5,006,721	04/09/91	Cameron et al.	250	561	03/23/90
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SN	*AO						

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	AQ						

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SN	*AR	E.S. Cameron & R. Doshi, "The Design and Manufacture of a High-Resolution Laser Radar Scanner," <u>SPIE Laser Radar IV</u> , Vol. 1103, 1989, pp. 190-197.					
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SN	*AU						

Examiner <i>Sanquar</i>	Date Considered <i>08/16/94</i>
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